Managing Water in the West

RIO GRANDE PROJECT

El Paso Field Division 10737 Gateway Blvd. West, Suite 350 El Paso, TX 79935



BUREAU OF RECLAMATION Elephant Butte & El Paso Field Divisions

RIO GRANDE PROJECT ANNUAL OPERATING PLAN PUBLIC MEETING

Wednesday, May 14, 2008 6:00 PM – 8:00 PM

Dorris Van Doren Public Library 551 Redd Rd. El Paso, TX

AGENDA

- 1. Introductions
- 2. <u>2008 Upper Rio Grande Basin Snowpack Conditions and Spring Runoff</u> Forecasts
- 2008 Upper Rio Grande Basin Water Operations
 Operations of Heron, El Vado, Abiquiu, and Cochiti Reservoirs
- 4. 2008 Elephant Butte & Caballo Reservoirs Operational Plan, Projected Reservoirs Levels, and Water Supply
- 5. 2008 Rio Grande Project Water Supply Allocation to Project Water Users and Tentative Irrigation Release Schedule
- Discussion, Questions, and Answers
- 7. Conclusion

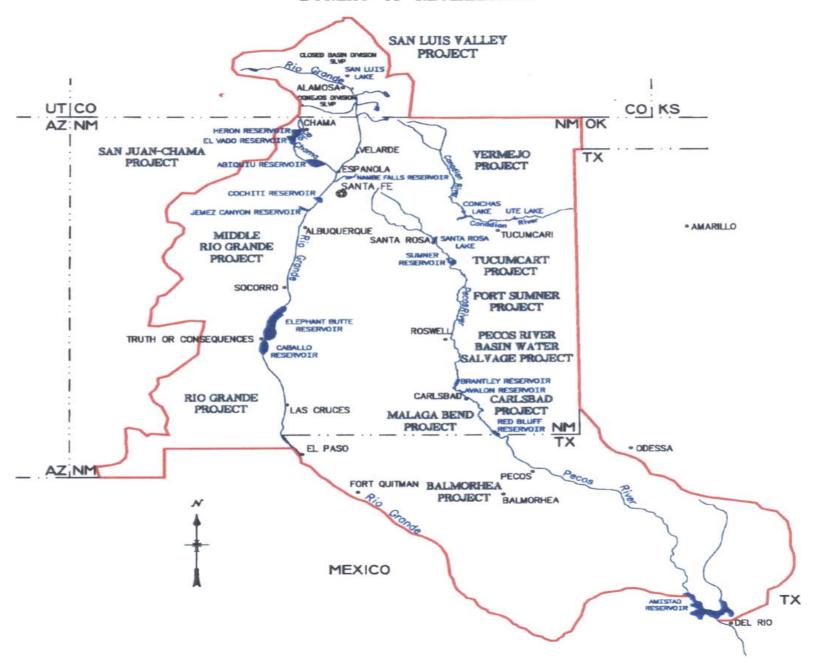
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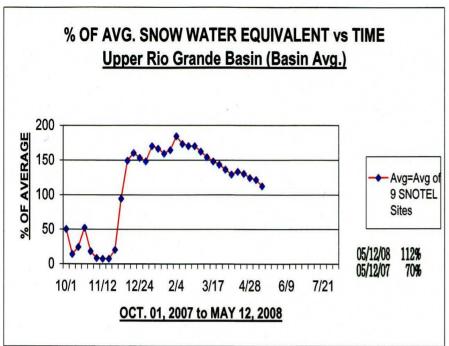
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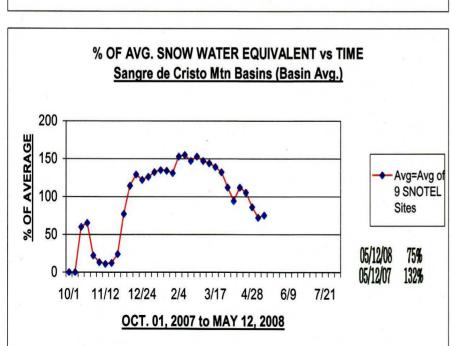
CURRENT HYDROLOGIC CONDITIONS OF UPPER RIO GRANDE BASIN

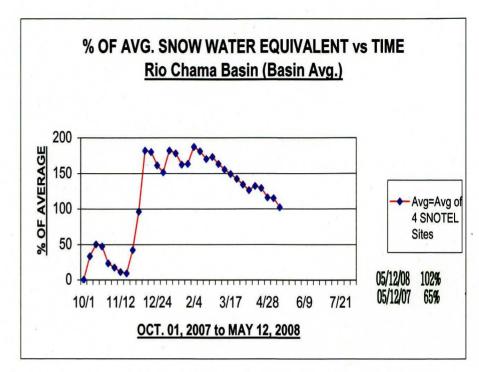


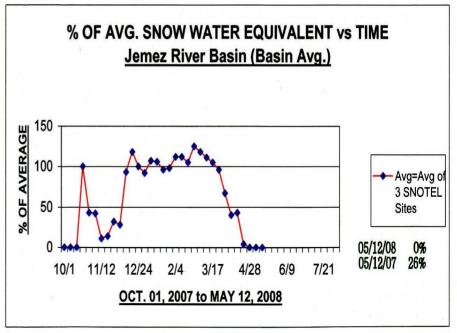
ALBUQUERQUE AREA OFFICE BUREAU OF RECLAMATION







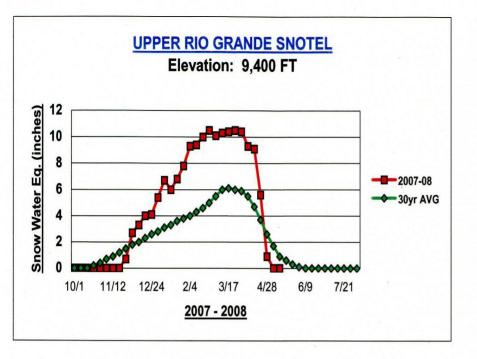


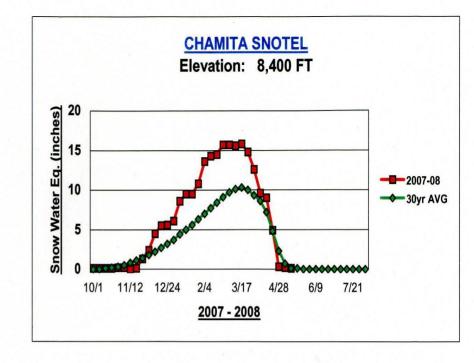


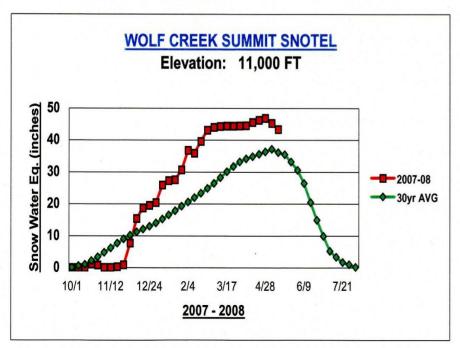


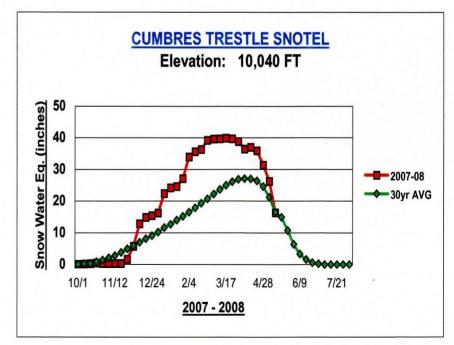


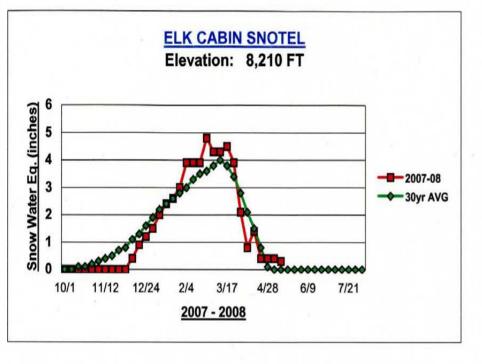


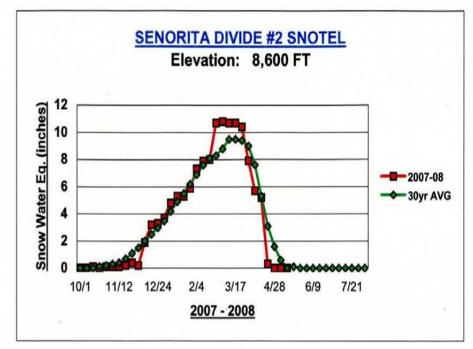


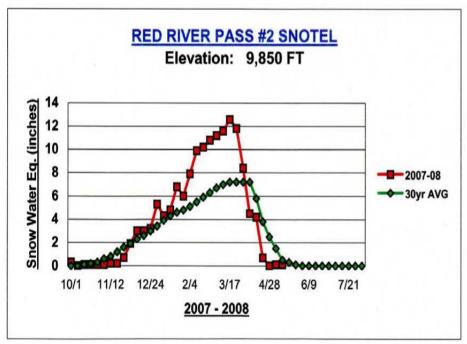


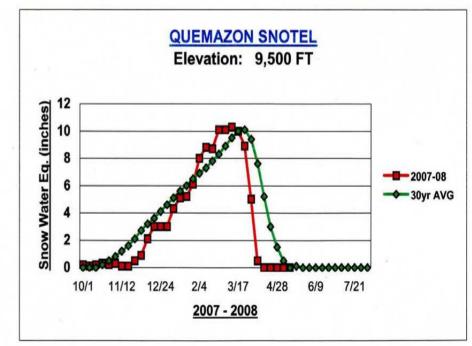


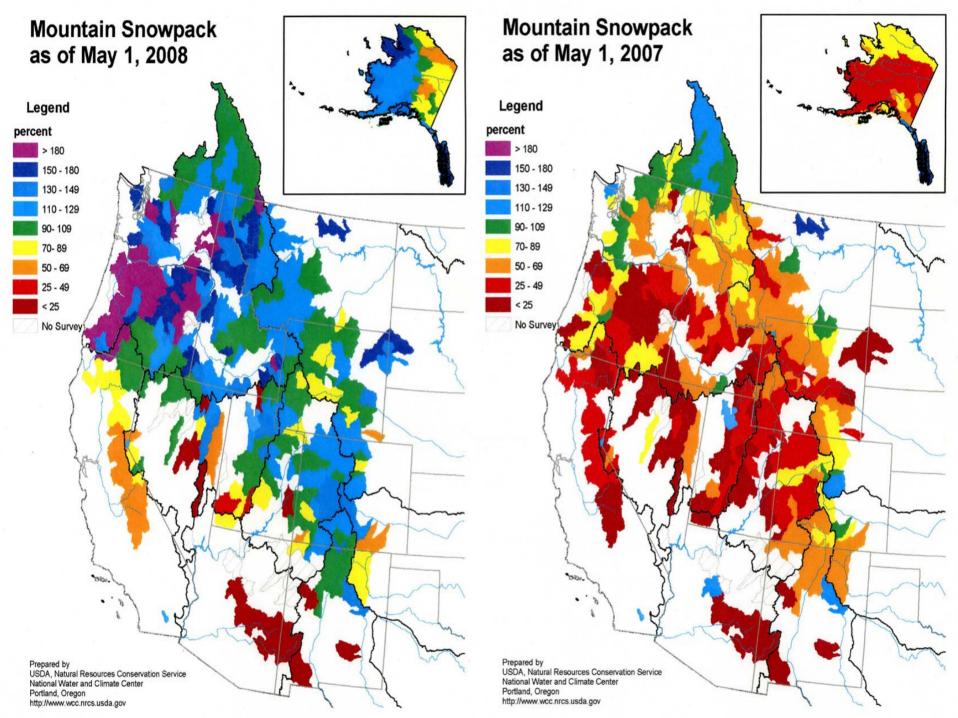


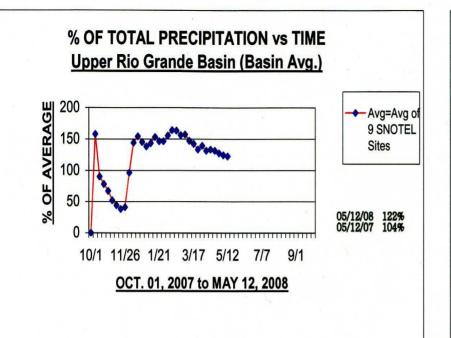


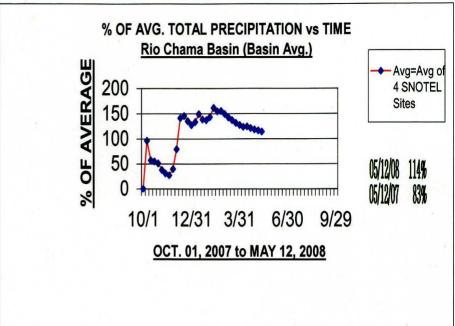


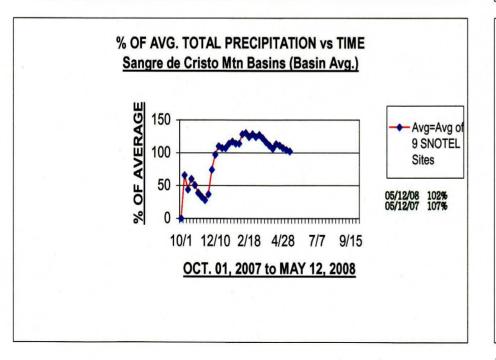


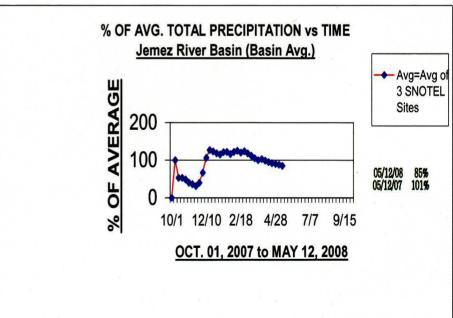












SPRING RUNOFF FORECASTS 2008

RIO GRANDE BASIN

(ACRE-FEET)

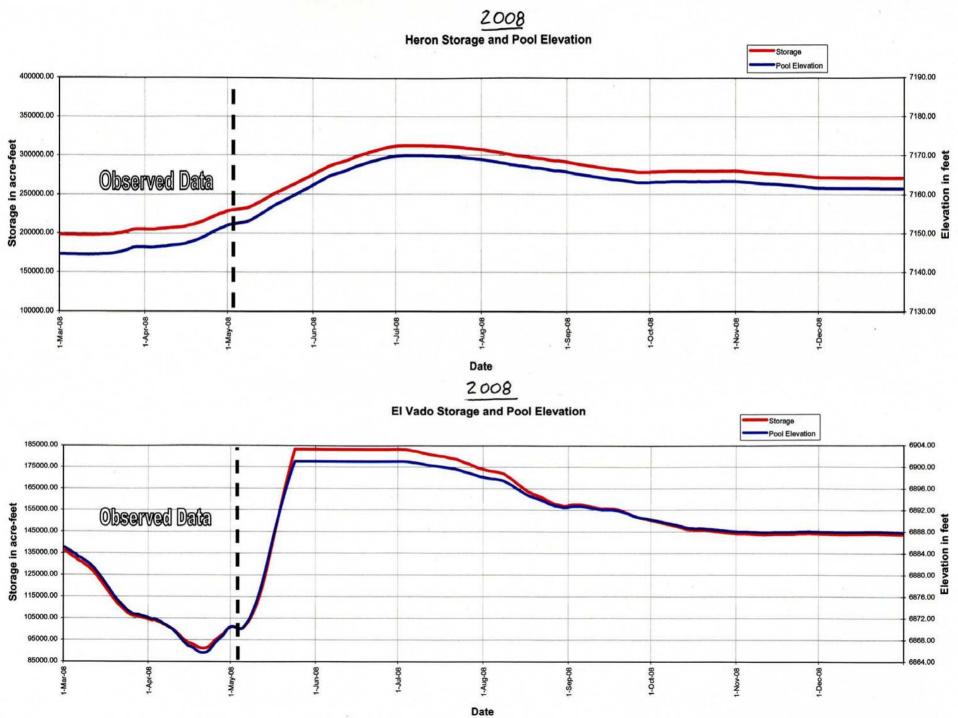
FORECAST POINT	Rio Grande nr Del Norte	Rio Chama at El Vado Reservoir	Rio Grande at Otowi Bridge	at Jemez Canyon Reservoir	Rio Grando at San Marcial
FORECAST PERIOD	APR-SEP	MAR-JUL	MAR-JUL	MAR-JUL	MAR-JUL
30-YEAR AVERAGE RUNOFF *	531,000	237,000	757,000	45,000	573,000
JANUARY 1	690,000	295,000	940,000	36,000	750,000
FORECAST	130%	124%	124%	80%	131%
FEBRUARY 1	790,000	390,000	1,300,000	50,000	1,050,000
FORECAST	149%	165%	172%	111%	183%
MARCH 1	850,000	400,000	1,380,000	52,000	1,150,000
FORECAST	160%	169%	182%	116%	201%
APRIL 1	745,000	375,000	1,170,000	41,000	980,000
FORECAST	140%	158%	155%	91%	171%
MAY 1	680,000	330,000	1,040,000	36,000	695,000
FORECAST **	128%	139%	137%	80%	121%
MAY		149,000	450,000	29,000	255,000
2007		63%	59%	64%	45%

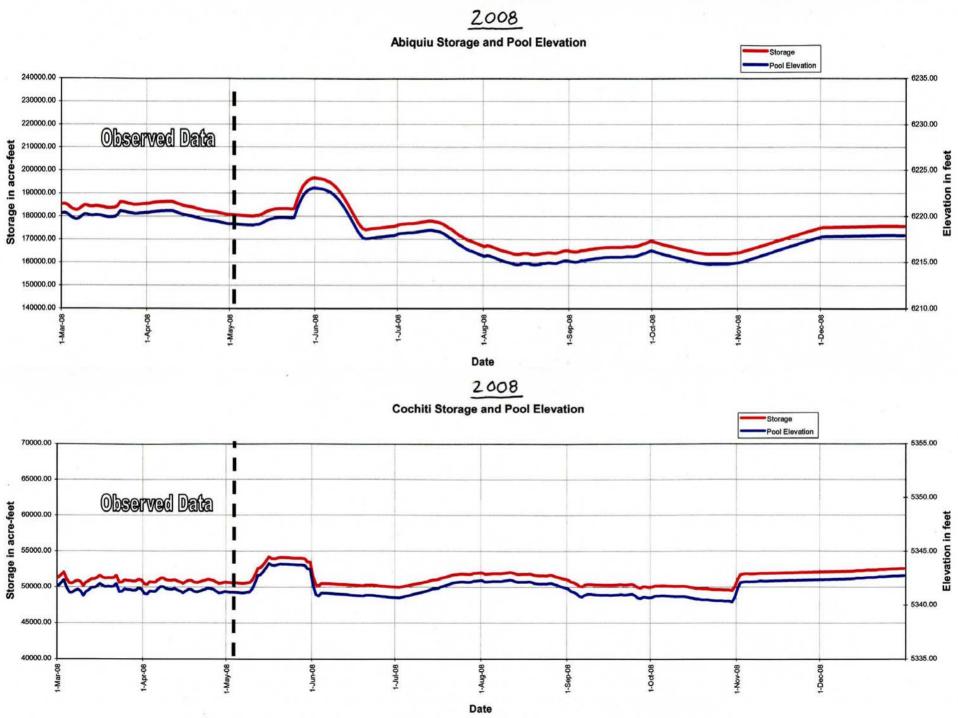
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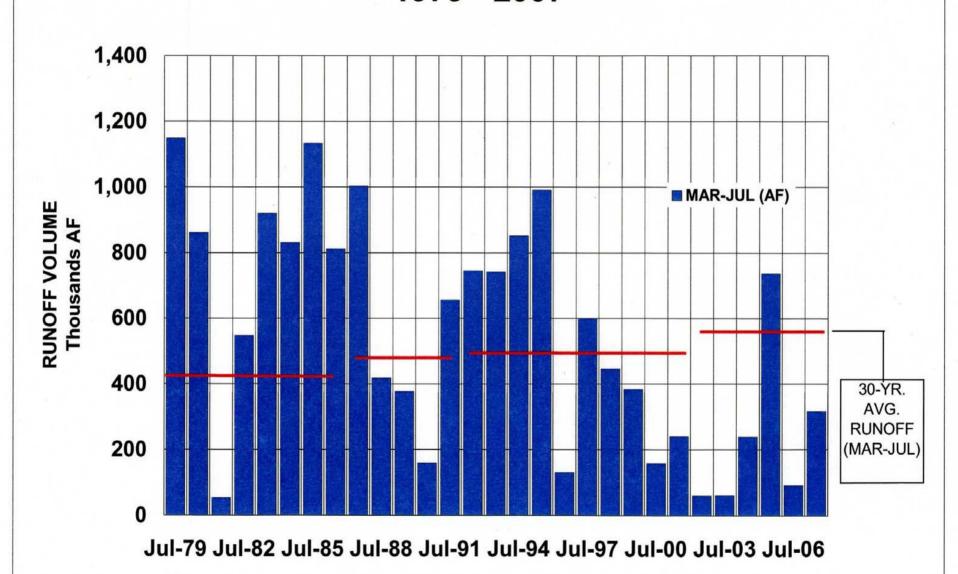
2008 UPPER RIO GRANDE BASIN RESERVOIRS OPERATIONS

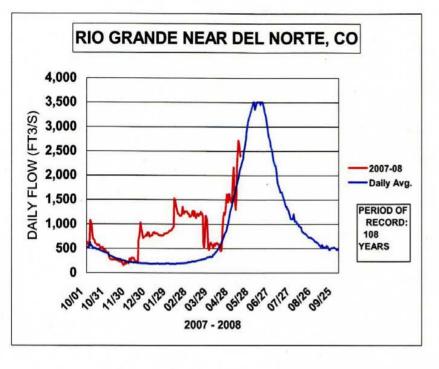


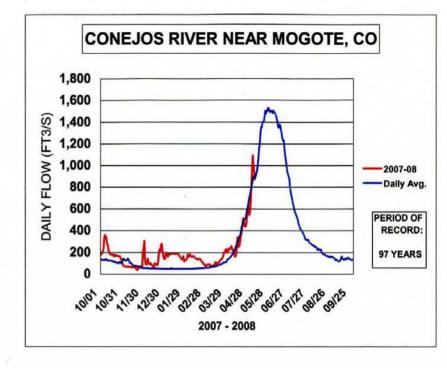


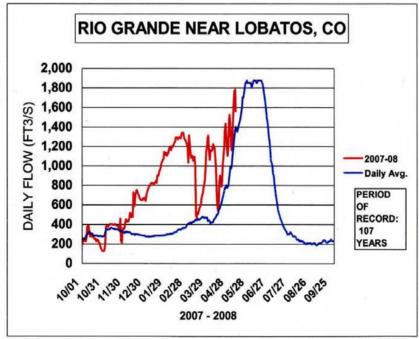


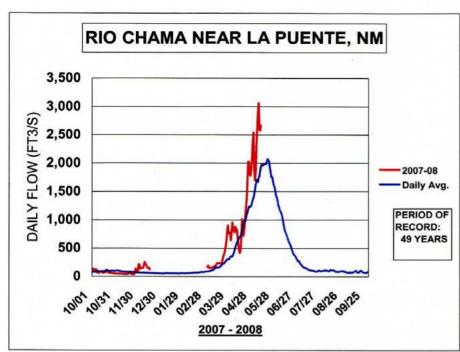
HISTORICAL RUNOFF - SAN MARCIAL 1979 - 2007

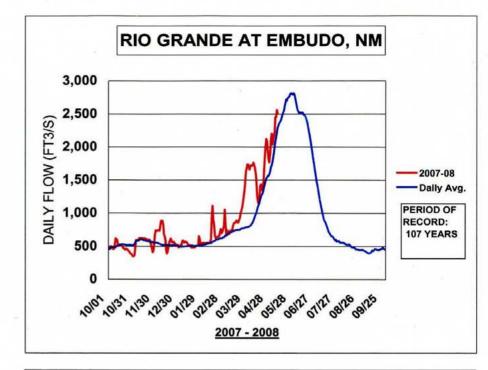


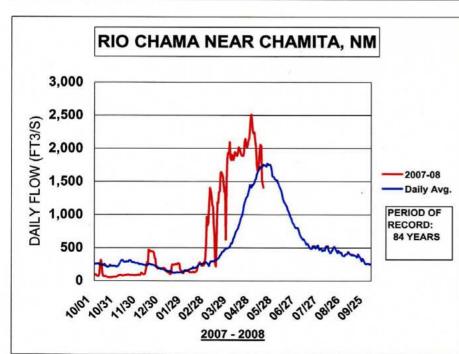


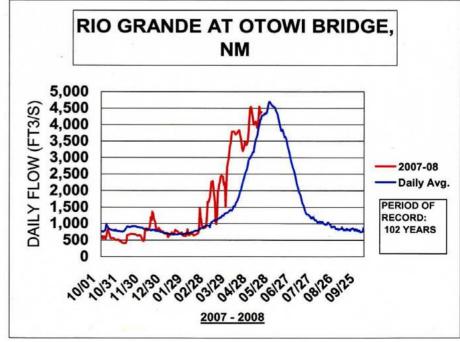


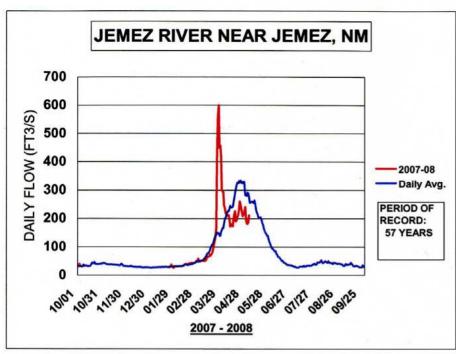


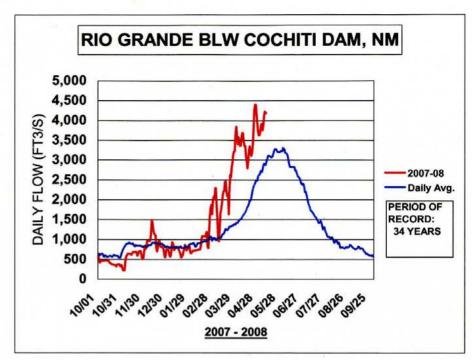


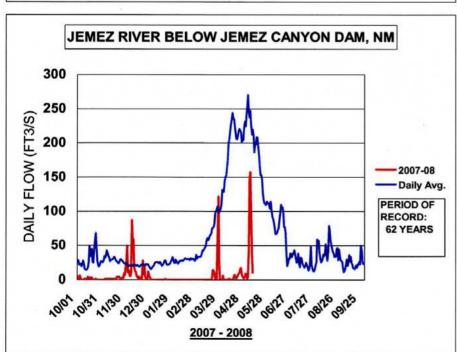


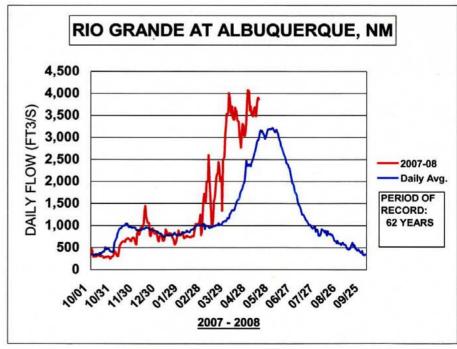


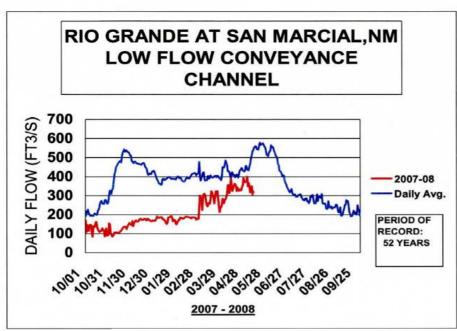


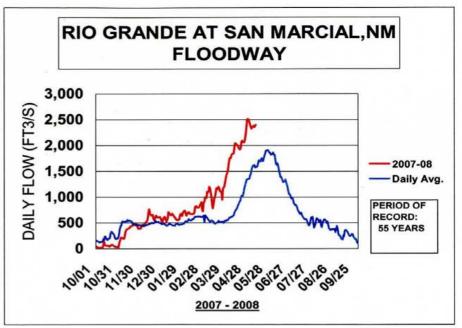


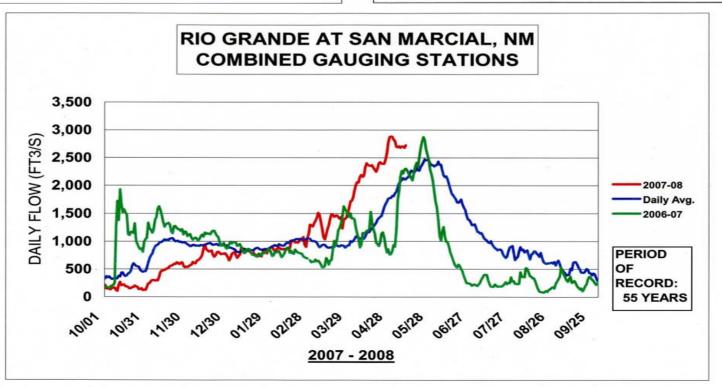


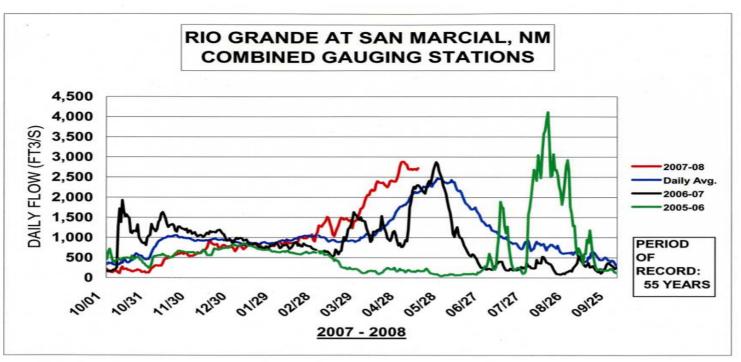


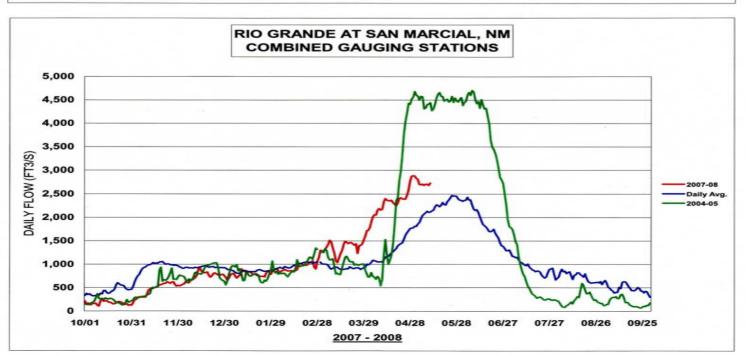












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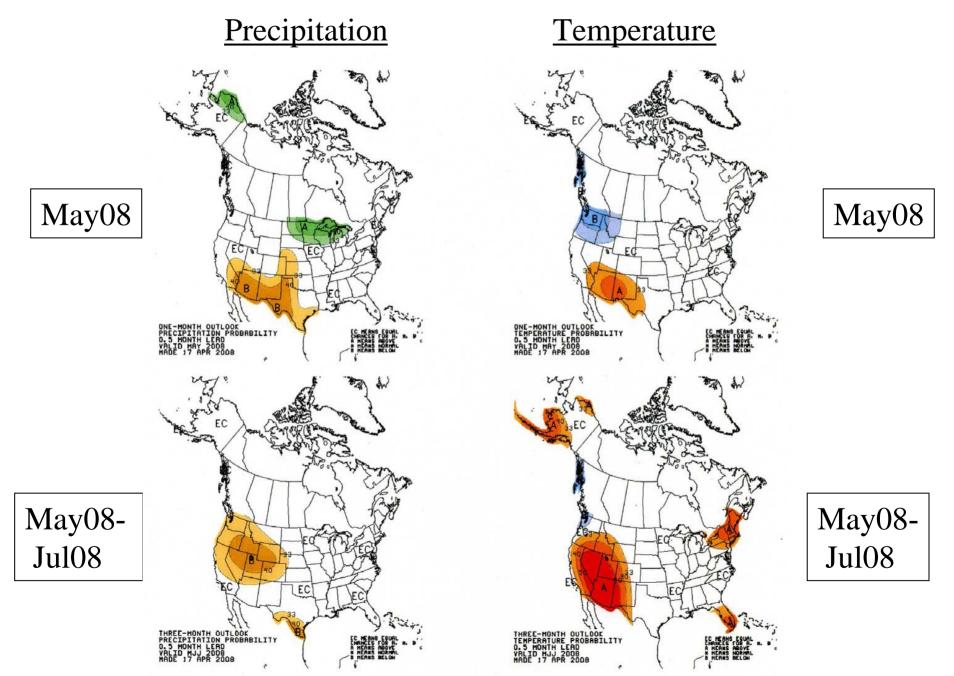
INFLOW TO ELEPHANT BUTTE RESERVOIR AT SAN MARCIAL STATIONS

	2007			2008				
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
	10,217	27,189	44,941	46,897	48,428	84,367	136,873	398,912
Avg.	30,000	59,000	60,000	47,000	48,000	60,000	120,000	424,000

Mar.-Jul. 2007 = 55.3% of average(316,976 AF)

Oct. 2007 - Feb. 2008 = 72.8% of average

Projected Mar. 2008 – Jul. 2008 = 132.0% of average



Managing Water in the West

RIO GRANDE PROJECT

CURRENT RESERVOIR CONDITIONS



BUREAU OF RECLAMATION RIO GRANDE PROJECT EL PASO, TX

2008 OPERATIONAL DATA STATUS

ELEPHANT BUTT	E RESERVOIR	7	RESERVOIR WATER SURFACE ELEVATION (feet)	FEET BELOW SPILLWAY CREST (feet)	RESERVOIR TOTAL STORAGE (acre-feet)	PERCENT OF FULL RESERVOIR (%)	RESERVOIR WATER SURFACE AREA (acres)	PERCENT OF FULL RESERVOIR SURFACE AREA (%)
TODAY'S DATE:	Wednesday,	May 14, 2008	4344.60	62.40	566,443	28.70%	13,846	39.34%
2007 HIGH POINT:	Monday,	March 26, 2007	4347.76	59.24	611,063	30.58%	14,395	40.45%
2007 LOW POINT: Gates Closed Oct.		October 24, 2007	4324.40	82.60	323,488	16.19%	10,270	28.85%
2006 LOW POINT:	Friday,	July 28, 2006	4308.50	98.50	183,875	9.32%	7,228	20.54%
2005 LOW POINT:	Saturday,	January 01, 2005	4309.94	97.06	194,426	9.73%	7,426	20.86%
2004 LOW POINT:	Friday,	September 24, 2004	4294.04 *	112.96	94,615	4.79%	4,935	14.02%

^{*} We haven't been this low at Elephant Butte Reservoir since November 1978.

CABALLO RESERVOIR

TODAY'S DATE:	Wednesday,	May 14, 2008	4146.02	26.42	**	49,625	21.89%	3,962	42.37%
2007 HIGH POINT:	Wednesday,	May 23, 2007	4151.88	20.56	**	76,662	33.82%	5,243	56.07%
2007 LOW POINT: Gates Closed Oct. 2	Tuesday, 6, 2007.	October 16, 2007	4132.72	39.72	**	13,287	5.86%	1,814	19.39%
2006 FALL LOW PT.: Gates Closed Oct. 10	Sunday, , 2006.	October 08, 2006	4141.98	30.46	**	35,351	15.60%	3,121	33.37%
2005 LOW POINT: Gates Closed Oct.	Thursday, 14, 2005.	October 13, 2005	4131.26	41.18	**	10,744	4.74%	1,670	17.86%
2004 GATES CLOSED:	Tuesday,	September 28, 2004	4134.10	38.34	**	15,883	7.01%	1,949	20.84%

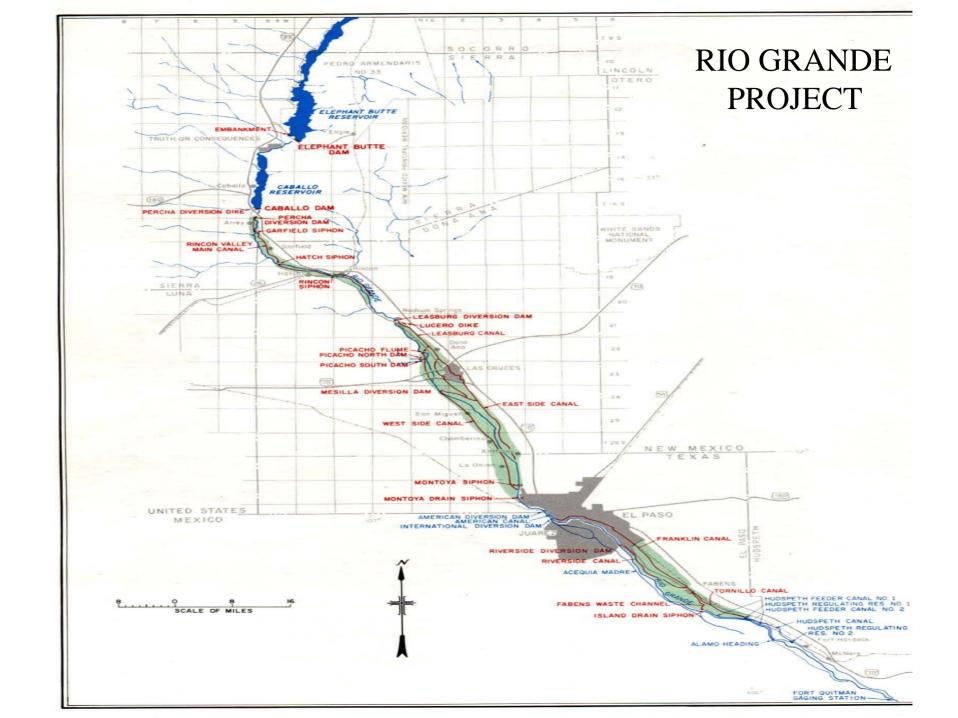
^{**} Feet below top of conservation pool.

RECLAMATION Managing Water in the West

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2008 RESERVOIR OPERATIONS AND PROJECT WATER SUPPLY





WORKSHEET OF STATUS OF RIO GRANDE COMPACT CREDIT WATERS & SAN JUAN-CHAMA WATER IN ELEPHANT BUTTE RESERVOIR AND ACCRUED DEPARTURES

WTreers 5/9/2008

2008	ELEI	PHANT BUTTE RESER	RVOIR	CABALLO
				RESERVOIR
	Rio Grande Credit V		San Juan-	Rio Grande Compact Accrued Departure
	Colorado (AF)	New Mexico (AF)	Chama Pool (AF)	Texas (AF)
Beginning of 2008 (derived from 2007 RGC Accounting)	7,200	184,500	4,048	778,400
Inflow to San Juan-Chama Pool from transfer upstream (Mar. 1 - Mar. 24, 2008)			21,911	
Estimated Evaporation from Jan. 1 to April 30, 2008 (derived from actual data)			535	
Relinquishment of Credit Water by NM to TX on February 01, 2008		125,000		
Relinquishment of Credit Water by CO to TX on February 29, 2008	1,200			
Caballo Reservoir Releases (actual data thru April 30, 2008)				189,918
Bonita Lateral Releases (actual data thru April 07, 2008)				228
2008 Departure from Normal Release at Caballo Reservoir (thru Dec. 31, 2008)				0
Preliminary Status of RGC Credit Waters, SJ-C Water, & Accr. Deps. to Apr. 30, 2008	6,000	59,500	25,424	778,400
				Accrued Departure CREDITS

RIO GRANDE COMPACT <u>USABLE WATER</u> IN PROJECT STORAGE

Wednesday, May 14, 2007		
Elephant Butte Reservoir	566,443 acre-feet	
Caballo Reservoir	49,625 acre-feet	616,068 AF
Compact Credit Waters	-65,500 acre-feet	
San Juan-Chama Water	-25,424 acre-feet	-90,924 AF
USABLE PROJECT WAT	CER	525,144 AF

RECLAMATION

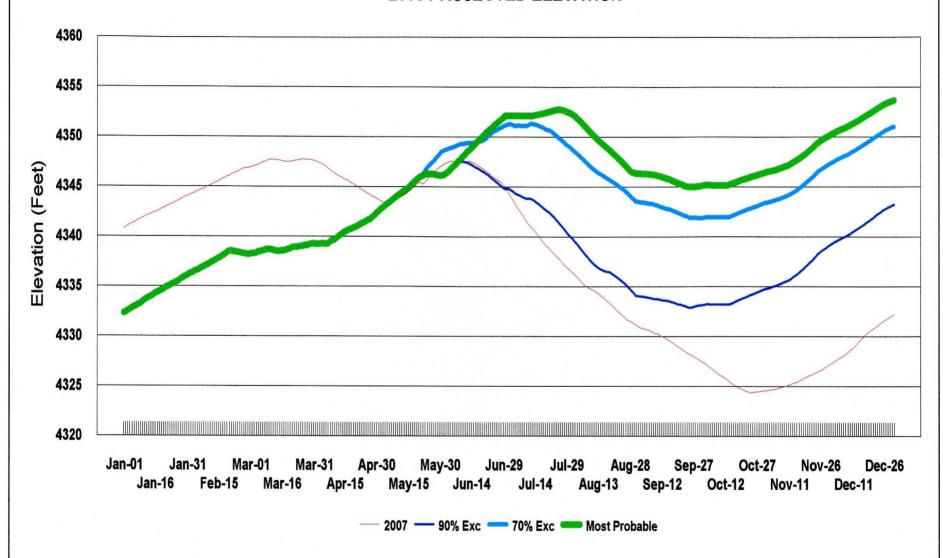
BASED ON 2008 MARCH THROUGH JULY WATER SUPPLY OUTLOOK REPOR May 1

2008 MAR-JUL @ SAN MARCIAL (NRCS forecast) 2008 MAR-JUL @ SAN MARCIAL (regulated forecast) 121% 695 KAF 132% 755 KAF

	11.000100													
AUG SEP	44 40	29 23	15 17	-15 -12		397 358	86 61	3	4	105 77	0	105 77	33 16	
OCT	32	21	11	-5		326		1	-2	39	ő	39	21	
NOV	32	5	27	-4	4	352	0	1	-2	0	0	0	22	NO
DEC	56	23	33	-27	3	409	0	1	-3	0	0	0	24	DEC
TOTAL	736	221	515	-109	87		642	22	2	637	0	637		TOTA
AVG			al Mar-Jul			483							38	AVG
	COCHITI	NET	SAN	55% <====	FLEDI	ANT BUTT			CABALLO	IDDIO	EXCESS	TOTAL	CABALLO	
YEAR	RELEASE		MARCIAL											
2008	REELFIOL	LOCOLO	MINUTOINE	LOCOLO	_,,,,	CONTLIN	TELLITOL	LVA	LOUGLO	DEMINITE	KELLHOL	TALLLAGE	CONTENT	200
JAN	45	-3	48	-1	3	455	1	1	-2	0	0	0	26	JAN
FEB	57	3	54	-4	5	482	25	1	3	7	0	7	41	FEE
MAR	140	55	84	-32	8	495		2	7	89	. 0	89	38	MAF
APR	215	78	137	-33	12	536		3	6	95	0	95	51	APF
MAY	281	127	154	-26	16	589		3	7	102	0	102	50	
JUN	243	16	227	-6	18	676		4	-6	130	0			
												130	50	
JUL	142	-10	152	-7	18	680		3	1	133	0	133	50	
AUG	119	71	48	-9	18	591	128	3	3	132	0	132	40	1500000
SEP	70	23	47	-6	12	573	-	1	0	78	0	78	20	
OCT	57	17	40	-4	10	592		1	-2	24	0	24	11	OC.
NOV	52	-7	59	1	5	645		1	-2	0	0	0	12	NO
DEC	53	-7	60	2	3	700	0	1	-3	0	0	0	14	DEC
TOTAL	1473	362	1111	-124	128		817	24	13	790	0	790	7	TOTA
AVG			l Mar-Jul			585							34	AVC
	1020	265	755	132%										
VEAD	COCHITI	NET	SAN	<====		ANT BUTT			CABALLO		EXCESS	TOTAL	CABALLO	
2009	KELEASE	LUSSES	MARCIAL	LUSSES	EVAP	CONTENT	RELEASE	EVAP	LUSSES	DEMAND	RELEASE	RELEASE	CONTENT	200
JAN	40	-7	47	0	4	742	0	1	-3	0	0	0	16	
FEB	44	-4	48	-0	8	760	23	1	-2	. 0	0	0	40	
MAR	75	15	60	-1	10	683	128	2	2	119	0	119		
APR	157	37	120	-2	16	706	83	2	2	79	0	79	45	
MAY	250	55	195	-2 -4	18	787			2				45	
JUN	197		7-545	-4	24		100	3		90	0	90	50	
		67	130			762	137	4	2	131	0	131	50	JUI
JUL	119	51	68	-7	18	683	136	4	-1	133	0	133	50	JUI
AUG	78	34	44	-9	14	609	113	2	-3	124	0	124	40	AUG
SEP	55	23	32	-6	12	578	57	1	-2	78	0	78	20	SEF
	47	17	30	-2	10	575	25	1	-2	35	0	35	11	OC.
OCT				2	5	627	0	1	-2	0	0	0	12	NO'
NOV	52	-7	59		•	OL.			-				12	140
NOV DEC	53	-7	60	2	3	681	0	0	-3	0	0	0	14	DEC
NOV		-7 274		-33	_									

ELEPHANT BUTTE RESERVOIR

2008 PROJECTED ELEVATION*



^{*}Actual data thru May 11; other data is a projection..

ELEPHANT BUTTE RESERVOIR 2008 PROJECTED LAKE ELEVATIONS SUMMARY TABLE

WTreers 5/13/2008

[SUBJECT TO REVISION]

01 = Labor Day			Lake	xx	
or Labor Day			Surface	₩ Difference	
	Elevation (feet) *	Storage _(acre-feet)_	Area (acres)	In Elevation From 2007	
END OF SEASON ELEVATION: October 24, 2007	4324.40	323,488	10,270	-6.24	(Diff. from 2006)
TODAY - MAY 13, 2008:	4344.44	564,230	13,818	0.28	
2008 RIO GRANDE PROJ SAN MARCIAL MOST PROBA					
				₩	
May 26, 2008	4346.31	590,439	14,143	0.11	(-0.27 from 5/28/07
July 04, 2008	4352.14	676,052	15,422	8.50	
July 26, 2008 (High Pt.)	4352.79	686,136	15,616	15.07	
September 01, 2008	4346.39	591,519	14,157	15.39	(15.55 from 9/3/07)
October 14, 2008 (Low Pt.)	4345.23	575,134	13,955	19.71	(20.83 from 10/24/0
December 31, 2008	4353.68	700,179	15,881	21.46	
2008 RIO GRANDE PROJ				₩	
SAN MARCIAL 70% EXCEED	ANCE - 103%/1	17% RUNOFF **		₩	
	AND THE PARTY OF T			**	Value and the Control of the Control
May 26, 2008	4347.36	605,280	14,325	1.16	(0.78 from 5/28/07)
May 26, 2008 July 04, 2008	4347.36 4351.20	605,280 661,672	14,325 15,142	7.56	(0.78 from 5/28/07)
		***************************************		₩	(0.78 from 5/28/07)
July 04, 2008	4351.20	661,672	15,142	7.56	
July 04, 2008 July 13, 2008 (High Pt.)	4351.20 4351.34	661,672 663,796	15,142 15,184	7.56 10.50	(0.78 from 5/28/07) (12.68 from 9/3/07) (17.64 from 10/24/0
July 04, 2008 July 13, 2008 (High Pt.) September 01, 2008	4351.20 4351.34 4343.52	661,672 663,796 551,523	15,142 15,184 13,658	7.56 10.50 12.52	(12.68 from 9/3/07)
July 04, 2008 July 13, 2008 (High Pt.) September 01, 2008 October 15, 2008 (Low Pt.)	4351.20 4351.34 4343.52 4342.04 4351.03	661,672 663,796 551,523 531,503 659,203	15,142 15,184 13,658 13,401	7.56 10.50 12.52 16.68	(12.68 from 9/3/07)
July 04, 2008 July 13, 2008 (High Pt.) September 01, 2008 October 15, 2008 (Low Pt.) December 31, 2008	4351.20 4351.34 4343.52 4342.04 4351.03	661,672 663,796 551,523 531,503 659,203	15,142 15,184 13,658 13,401	7.56 10.50 12.52 16.68	(12.68 from 9/3/07) (17.64 from 10/24/0
July 04, 2008 July 13, 2008 (High Pt.) September 01, 2008 October 15, 2008 (Low Pt.) December 31, 2008 2008 RIO GRANDE PROJ SAN MARCIAL 90% EXCEED	4351.20 4351.34 4343.52 4342.04 4351.03 ECT RESERVO DANCE - 79%/96	661,672 663,796 551,523 531,503 659,203 DIRS PLAN 5% RUNOFF **	15,142 15,184 13,658 13,401 15,091	7.56 10.50 12.52 16.68 18.81	(12.68 from 9/3/07) (17.64 from 10/24/0
July 04, 2008 July 13, 2008 (High Pt.) September 01, 2008 October 15, 2008 (Low Pt.) December 31, 2008 2008 RIO GRANDE PROJ SAN MARCIAL 90% EXCEED	4351.20 4351.34 4343.52 4342.04 4351.03 ECT RESERVO DANCE - 79%/96	661,672 663,796 551,523 531,503 659,203 DIRS PLAN 5% RUNOFF **	15,142 15,184 13,658 13,401 15,091	7.56 10.50 12.52 16.68 18.81	(12.68 from 9/3/07) (17.64 from 10/24/0
July 04, 2008 July 13, 2008 (High Pt.) September 01, 2008 October 15, 2008 (Low Pt.) December 31, 2008 2008 RIO GRANDE PROJ SAN MARCIAL 90% EXCEED May 26, 2008 June 10, 2008 (High Pt.)	4351.20 4351.34 4343.52 4342.04 4351.03 ECT RESERVO ANCE - 79%/96 4346.31 4347.53	661,672 663,796 551,523 531,503 659,203 DIRS PLAN 6% RUNOFF ** 590,439 607,766	15,142 15,184 13,658 13,401 15,091 14,143 14,355	7.56 10.50 12.52 16.68 18.81 0.11 -0.05	(12.68 from 9/3/07) (17.64 from 10/24/0
July 04, 2008 July 13, 2008 (High Pt.) September 01, 2008 October 15, 2008 (Low Pt.) December 31, 2008 2008 RIO GRANDE PROJ SAN MARCIAL 90% EXCEED May 26, 2008 June 10, 2008 (High Pt.) July 04, 2008	4351.20 4351.34 4343.52 4342.04 4351.03 ECT RESERVO ANCE - 79%/96 4346.31 4347.53 4344.51	661,672 663,796 551,523 531,503 659,203 DIRS PLAN 6% RUNOFF ** 590,439 607,766 565,198	15,142 15,184 13,658 13,401 15,091 14,143 14,355 13,830	7.56 10.50 12.52 16.68 18.81 0.11 -0.05 0.87	(12.68 from 9/3/07) (17.64 from 10/24/0

^{*} Rio Grande Project datum; to obtain USGS mean sea level, add 43.30 feet.

^{**} Based on NRCS/NWS May 1st runoff forecasts, and adjusted for upstream reservoir regulation and middle valley gains.

Managing Water in the West

RIO GRANDE PROJECT

2008 PROJECT ALLOCATION



2008 Rio Grande Project Allocation

Initial Allocation - End of December, 2007

(letter issued Jan. 18, 2008)

Elephant Butte Irrigation District El Paso County Water Improvement District # 1	59,928 AF 154.901 AF
[24.20% of a full supply]	225,540 AF

Updated Allocation - End of January, 2008

(letter issued Feb. 21, 2008)

Mexico	26,935 AF
Elephant Butte Irrigation District	151,859 AF
El Paso County Water Improvement District # 1	232,339 AF
[44.12% of a full supply]	411,133 AF

Updated Allocation - End of February, 2008

(letter issued Mar. 20, 2008)

[49.37% of a full supply]	460,030 AF *
El Paso County Water Improvement District # 1	258,634 AF
Elephant Butte Irrigation District	169,877 AF
Mexico	31,519 AF

Updated Allocation - End of March, 2008

(letter issued Apr. 17, 2008)

Mexico	38,773 AF
Elephant Butte Irrigation District	198,384 AF
El Paso County Water Improvement District # 1	300,239 AF
[57.67% of a full supply]	537,396 AF *

Updated Allocation - End of April, 2008

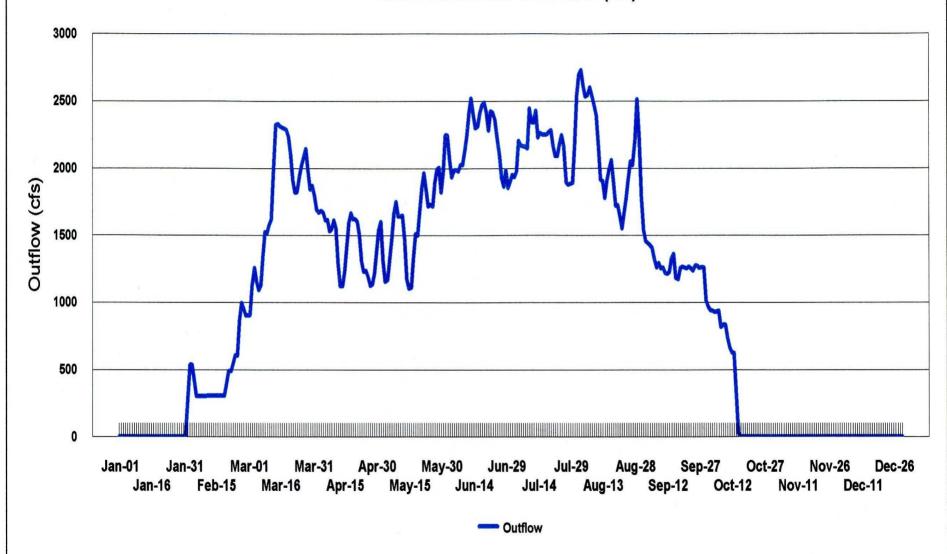
(letter issued May 19, 2008)

Mexico	52,680 AF
Elephant Butte Irrigation District	253,045 AF
El Paso County Water Improvement District # 1	380,012 AF
[73.59% of a full supply]	685,737 AF *

* Project water supply available for diversion at the authorized canal headings.

CABALLO RESERVOIR

2008 PROJECTED OUTFLOW (cfs)*



^{*} Actual data through May 12; other data is a projection.

*Based on Rio Grande Project runs dated May 12.

RIO GRANDE PROJECT 2007 WATER OPERATIONS SUMMARY

ELEPHANT BUTTE RESERVOIR INFLOW	515,050	A-F
ELEPHANT BUTTE RESERVOIR OUTFLOW	642,060	A-F
CABALLO RESERVOIR INFLOW	642,060	A-F
CABALLO RESERVOIR OUTFLOW	636,860	A-F
EBID WATER CHARGES	302,665	A-F
EPCWID#1 WATER CHARGES *	278,252	A-F
CITY OF EL PASO DIVERSIONS	58,792	A-F
HCCRD DIVERSIONS **	82,262	A-F
FT. QUITMAN FLOW ***	63,263	A-F

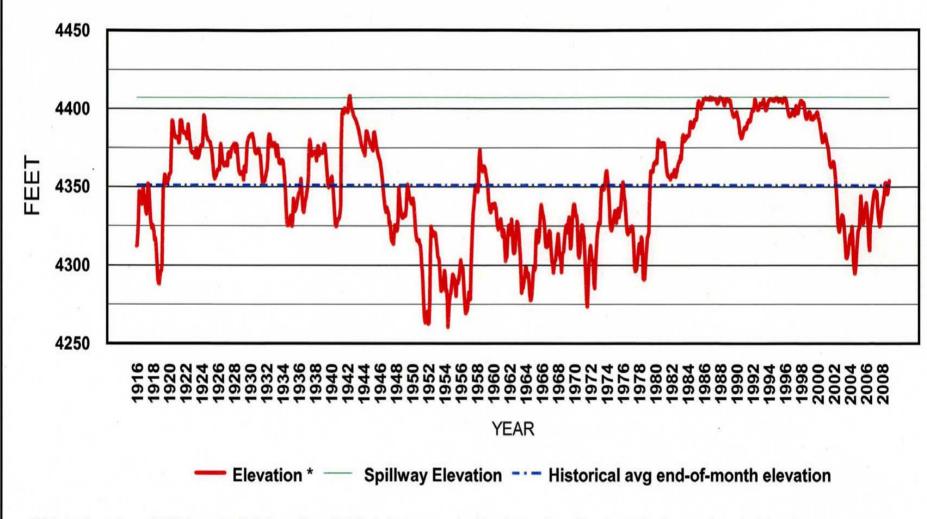
^{*} Includes City of El Paso diversions.

^{**} System waste and return flows.

^{***} Includes discharge from Acequia Madre in Mexico.

ELEPHANT BUTTE RESERVOIR

HISTORICAL END-OF-MONTH ELEVATION**



^{**}Data thru Apr. 2008 is actual data; other 2008 data is a projection based on Reclamation's most probable plan.

^{*} BOR project datum. To obtain mean sea level datum, add 43.3 feet

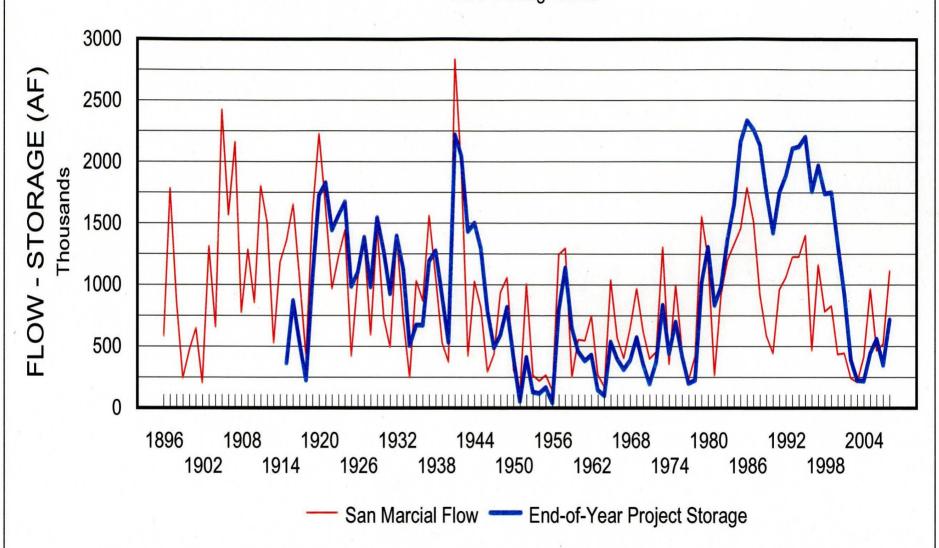
Managing Water in the West

RIO GRANDE PROJECT

SUPPORTING INFORMATION



SAN MARCIAL FLOW - RIO GRANDE PROJECT STORAGE 1896 Through 2008*



^{*} End-of-year project storage and San Marcial flow for 2008 is a projection based on Rio Grande Project most probable plan.

STATUS OF RIO GRANDE COMPACT CREDIT WATERS IN ELEPHANT BUTTE RESERVOIR SINCE LAST SPILL FROM RIO GRANDE PROJECT STORAGE *

YEAR	COLORADO (acre-feet)	NEW MEXICO (acre-feet)	
1995	0	О	SPILL YEAR
1996	2,400	68,800	
1997	2,900	105,500	
1998	11,500	153,100	
1999	17,700	170,700	
2000	27,000	269,100	
2001	10,100	155,700	
2002	42,800	265,000	
2003	1,200	54,000	
2004	4,400	35,600	
2005	4,600	37,100	
2006	15,500	180,100	
2007	7,200	184,500	

^{*} derived from Rio Grande Compact Commission yearly reports.

ELEPHANT BUTTE RESERVOIR

TOTAL STORAGE

FLOOD RESERVATION POOL

100,000 AF

2.023.358 AF

Top of Conservation Storage Pool: (Rio Grande Project Authorization) (ELEV 4407.00 FT)

25,000 AF (WINTER) Top of Conservation Storage Pool: 1,998,358 AF

Winter (October 1 - March 31) (ELEV 4406.30 FT)

50,000 AF (SUMMER) Top of Conservation Storage Pool: 1,973,358 AF

Summer (April 1 - September 30) (ELEV 4405.60 FT)

Top of City of Albuquerque SJ-C Pool: 50,000 AF 1983 Contract for irrig, and domestic (ELEV 4295.11 FT)

Top of Federal Recreation Pool: 50,000 AF

1974 Public Law 93-493, 88 Stat. 1486 (ELEV 4282.68 FT)

CABALLO RESERVOIR

EXCLUSIVE FLOOD CONTROL

Top of Flood Control Pool: 326.672 AF

(ELEV 4182.00 FT)

Top of Conservation Storage Pool: 226.672 AF

(ELEV 4172.44 FT)

Top of Minimum Fishery Pool: 25,000 AF Biological Opinion (1991) (ELEV 4138.24 FT)

Court Order No. CIV-90-95 HB/WWD:

October 1 - January 31 (each year), storage level will not exceed 50,000 AF (elev 4146.11 ft)

Operation Plan of Caballo Reservoir during 2008:

February 1 - September 30 (2008), storage level will be maintained such that the storage level shall not exceed 57,000 AF (elev 4147.79 ft) nor drop below 10,000 AF (elev 4130.81 ft) from Feb. 1 to Sep. 30

RIO GRANDE PROJECT HISTORICAL ALLOCATION OF PROJECT WATER SUPPLY

WTreers 03/05/2008

	EO FEB. TOTAL RIO	SAN MARCIAL	INITIAL	FINAL	INITIAL ALLOTMENT	FINAL ALLOTMENT	EO OCT. TOTAL RIO	MEXICO DIVERSION	INITIAL RELEASE	CABALLO DAM
	GRANDE	SPRING	ALLOTMENT	ALLOTMENT	TO PROJECT	TO PROJECT	GRANDE	AT ACEQUIA	DATE	TOTAL
	PROJECT	RUNOFF	TO PROJECT	TO PROJECT	CANAL	CANAL	PROJECT	MADRE	FROM	YEARLY
	STORAGE	(Mar-Jul)	LANDS	LANDS	HEADINGS	HEADINGS	STORAGE	HEADING	CABALLO	RELEASE
YEAR	(acre-feet)	(acre-feet)	(acre-foot/acre)	(acre-foot/acre)	(acre-feet)	(acre-feet)	(acre-feet)	(acre-feet)	DAM	(acre-feet)
1951	452,730	17,877	1.00	1.75			32,900	33,059	03/06	469,450
1952	103,920	832,160	0.21	2.50			370,950	49,890	03/20	543,975
1953	468,600	143,170	1.00	1.90			99,990	37,760	03/10	528,628
1954	184,460	76,720	0.42	0.50			91,480	10,147	03/20	244,165
1955	169,850	68,920	0.21	0.42			129,700	8,185	03/20	219,157
1956	212,180	59,885	0.33	0.39			31,040	7,864	03/18	246,140
1957	77,130	600,680	0.10	1.17			645,760	23,290	03/20	397,103
1958	857,510	988,030	1.75	4.00			1,007,170	60,050	03/01	737,125
1959	1,185,120	72,590	3.00	3.50			575,670	60,110	03/02	687,414
1960	713,550	410,900	2.25	3.25			405,820	60,320	03/02	705,162
1961	492,870	269,550	1.25	2.45	1		223,080	48,610	03/10	561,697
1962	486,570	448,250	1.75	3.25			269,580	60,057	03/05	651,941
1963	513,170	116,765	1.85	2.00			109,440	39,693	03/05	517,172
1964	194,790	67,930	0.25	0.33			58,670	6,653	03/15	206,085 505,598
1965	172,340	598,290	0.17	1.85			340,940	36,658	03/20	610,341
1966	627,430	328,380	1.75	2.50			312,910	49,618	03/05	456,517
1967	454,710	74,090	1.25	1.50			223,340	29,829	02/27	505,691
1968	386,860	238,560	1.00	2.00			277,530	39,677 59,884	02/27	667,669
1969	466,970	358,710	1.25	3.00		_	387,410		02/23	661,125
1970	614,620	257,960	2.00	3.00		_	223,870	60,065	02/26	498,375
1971	435,640	112,837	1.50	1.75			75,540	34,847	03/01	260,911
1972	283,380	77,630	0.60	0.80		_	258,910	16,077 60,000	03/09	617,461
1973	457,960	914,090	1.00	3.00		_	707,340	60,050	03/09	640,843
1974	915,650	95,430	3.00	3.00			376,650		01/24	580,617
1975	507,700	617,850	1.00	3.00			534,490	60,052	01/16	679,676
1976	762,230	204,260	2.50	3.00		_	353,910	60,172	03/03	416,496
1977	482,460	43,374	1.00	1.25			140,460 112,160	24,824 14,903	03/03	356,167
1978	268,220	248,610	0.25	0.75		790,000	855,640	60,055	03/08	568,687
1979	328,690	1,148,880	0.67	3.00			1,178,400	60,033	01/17	658,686
1980	1,080,400	861,894	3.00	3.00	750.050	790,000 750,650	774,380	60,262	02/04	608,166
1981	1,339,860	54,256	3.00	3.00	750,650	790,000	866,140	59,257	01/27	635,642
1982	878,660	548,573	3.00	3.00	790,000	790,000	1,289,750	60,621	02/03	648,386
1983	1,070,130	920,545	3.00	3.00	790,000 902,000	902,000	1,515,500	58,588	02/09	653,150
1984	1,424,200	831,291	3.00	3.00			2,121,600	60,276	02/20	677,398
1985	1,747,700	1,133,599			902,000	902,000	2,290,800	66,163	04/01	1,396,165
1986	2,322,200	812,686			902,000	902,000	2,168,400	65,866	02/03	1,376,099
1987	2,336,900	1,003,319			902,000	902,000	2,060,100	61,935	01/20	838,008
1988	2,383,900	419,098			890,900	890,900	1,705,300	58,854	02/13	736,866
1989	2,151,900	378,144	+ +			931,841	1,319,400	58,353	02/13	680,107
1990	1,801,000	159,213			931,841	931,841	1,580,080	59,242	02/12	625,956
1991	1,509,660	656,638	+		931,841	931,841	1,802,720	58,080	01/09	734,982
1992	1,830,380	745,950			931,841		1,802,720	63,763	01/09	823,263
1993	1,980,230	742,508			931,841	931,841		60,167	01/12	893,384
1994	2,155,690	852,845		_	931,841	931,841	2,003,860	63,618	01/11	1,096,146
1995	2,203,730	991,736		_	931,841	931,841	2,083,050 1,689,550	60,063	01/17	774,335
1996	2,263,420	131,980			931,841	931,841 931,841	1,814,980	59,442	01/12	798,621
1997	1,814,910	600,666			931,841	931,841	1,636,860	60,628	01/21	808,661
1998	2,036,000	447,172			931,841		1,658,810	58,308	01/16	735,467
1999	1,803,410	384,225		+	931,841	931,841		60,611	01/20	751,373
2000	1,804,980	159,000			931,841	931,841 931,841	1,243,900 856,910	61,037	02/02	786,549
2001	1,359,370	241,000			931,841		323,190	60,324	02/02	801,147
2002	974,610	61,095			738,139	931,841	170,490	26,948	03/17	364,528
2003	456,140	62,029			74,860	317,495		26,948	03/17	398,612
2004	288,480	240,387	_	_	43,667	353,944 931,841	128,010 362,060	58,091	03/09	676,031
2005	331,000	738,095		_	138,549 351,560	472,426	436,950	27,112	03/08	434,228
2006	517,170	92,521	+	_	369,466	760,391	346,170	51,245	03/07	636,730
2007	644,990	316,979			309,400	700,381	340,170	01,240	03/07	000,700